

Ball valve brass threaded female with pneumatic actuator single & double acting



Actuated Brass WRAS Approved Ball Valve fitted with pneumatic Actuator

Ball Valve:

Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite or equivalent thread sealant

ISO 5211 and DIN 3337 mounting flange for universal connection to actuator

Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Assessment according to Pressure Equipment Directive 97/23 CE module B+D by Pascal (1115)

EN 10226-1, ISO 228 parallel female by female threads

Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

Working Pressure 40 Bar (600 PSI) up to 2", 30 Bar (450 PSI) over 2" non-shock cold working pressure

Working Temperature -20°C (-4F) to +170°C (+350F)

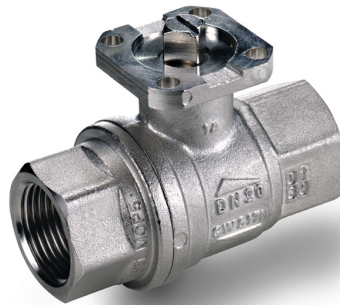
Warning: freezing of the fluid in the installation may severely damage the valve

Actuator:Haitima Double & Single Acting Pneumatic Actuator

Aluminium Body

All sized Based on 6 Bar Pilot Air Pressure

Full port 1/2"-4" hot forged brass ball valve



Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life

Body:

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Integrated ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Reinforced PTFE self-lubricating seats with flexible-lip and wear compensation design

Threads:

- EN 10226-1, ISO 228 parallel female by female threads

Flow:

- 100% full port for maximum flow

Handle:

- Integrated sturdy ISO 5211 flange allows direct mounting of electric and pneumatic actuators, with no bracket or coupling required. See **RuB** line of electric and pneumatic actuators.

Working pressure and temperature:

- 40 Bar (600 PSI) up to 2", 30 Bar (450 PSI) over 2" non-shock cold working pressure
- For use with dangerous fluids pressure rating is 5 bar
- -20°C (-4°F) / +170°C (+350°F)
- **WARNING:** freezing of the fluid in the installation may severely damage the valve
- For use with dangerous fluids temperature rating is -20°C +60°C

Options:

- s.64 configuration featuring NPT taper ANSI B.1.20.1 female by female threads, unplated body, reinforced seats and brass or stainless stem and ball
- CW511L brass (lead-free and DZR) for drinking water applications with compression ends
- Configuration for use with slurries or liquid bearing abrasive particles
- Rack and pinion pneumatic actuator (spring return or double acting)
- Compact power electric actuator for some sizes
- Manual lockable handle

Upon request:

- Custom design

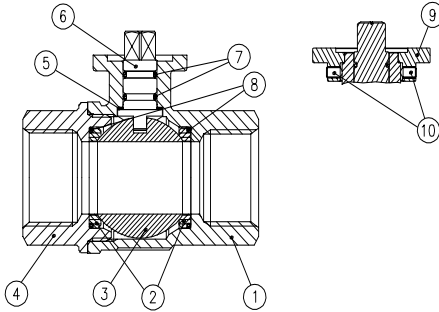
PED directive:

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by Pascal (1115)

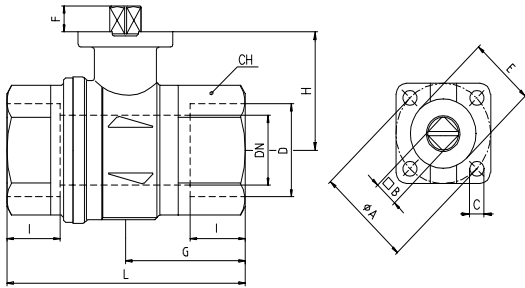
Approved by or in compliance with:

- Water Regulations Advisory Scheme (United Kingdom)
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- UkrSepro (Ukraine)
- RoHS Compliant (EU)
- EAC - Declaration of conformity (Russia-Kazakhstan-Belarus)

NOTE: approvals apply to specific configurations/sizes only.



Valves configuration up to 2"

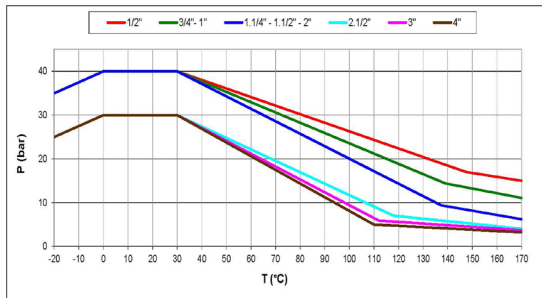


Valve ball seats and stem configuration of valves over 2" is different.

Torque for actuator sizing N.m

Delta P →	0 ÷ 15 Bar		40 Bar (30 Bar over 2")	
	To open	To close	To open	To close
1/2"	2,8	1,7	2,8	1,7
3/4"	3,8	2,3	3,8	2,3
1"	7,1	4,2	7,1	4,2
1.1/4"	11,7	12,6	13,6	12,6
1.1/2"	24,9	20,3	30,9	20,3
2"	29,6	25,1	37	25,1
2.1/2"	42	42	105	105
3"	102	102	120	120
4"	186	186	225	225

Pressure-temperature chart



	Part description	Q.ty	Material
1	Nickel plated body	1	CW617N
2	Ball seat	2	PTFE graphite filled 15%
3	Chrome plated ball	1	CW617N
4	Nickel plated end-cap	1	CW617N
5	Washer	1	PTFE carbon filled 25%
6	Nickel plated stem O-ring design	1	CW617N
7	O-Ring	2	FPM
8	O-Ring	2	FPM
9	Black anodized flange (only from 2.1/2" to 4")	1	Aluminum
10	Grub Screw (only from 2.1/2" to 4")	2	CB4FF

	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN(mm)	15	20	25	32	40	50	65	80	100
I (mm)	15,5	18	21	23	24,5	26,5	32	35	41,5
L (mm)	75	80	90	110	120	140	156	177	216
G (mm)	30,5	37	45,5	52	59	67,5	78	88,5	108
H (mm)	31	38,5	42,5	55,5	62	69	89	96	111
CH(mm)	27	32	41	50	55	70	85	99	125
ØA(mm)	36	36	36	50	50	50	70	70	70
□B(mm)	9	9	9	11	11	14	17	17	17
C (mm)	5,6	5,6	5,6	6,6	6,6	6,6	8,5	8,5	8,5
E (mm)	25	25	25	35	35	35	55	55	55
F (mm)	7,5	8,5	8,5	10	10	14,5	18	18	18
Flange connection DIN ISO 5211 DIN 3337	F03	F03	F03	F05	F05	F05	F07	F07	F07

Ball valves are marked CE on end-cap from 1.1/4" to 4" as follow:
CE 1115 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

Torque correction factors

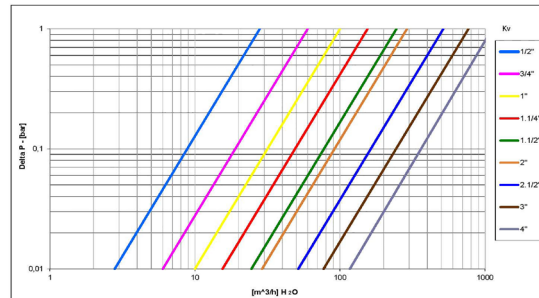
Valve torque can vary according to operating frequency, temperature and friction characteristics of the media.

If media has more or less friction than water, multiply torque by the following factors.

- Lubricating oils or liquids 0.8
- Dry gases, natural gas, superheated steam 1.5
- Slurries or liquids bearing abrasive particles 1.5÷2.5

Ask for additional information on the whole range of **RuB** products and consult with your supplier for special applications.

Pressure drop chart



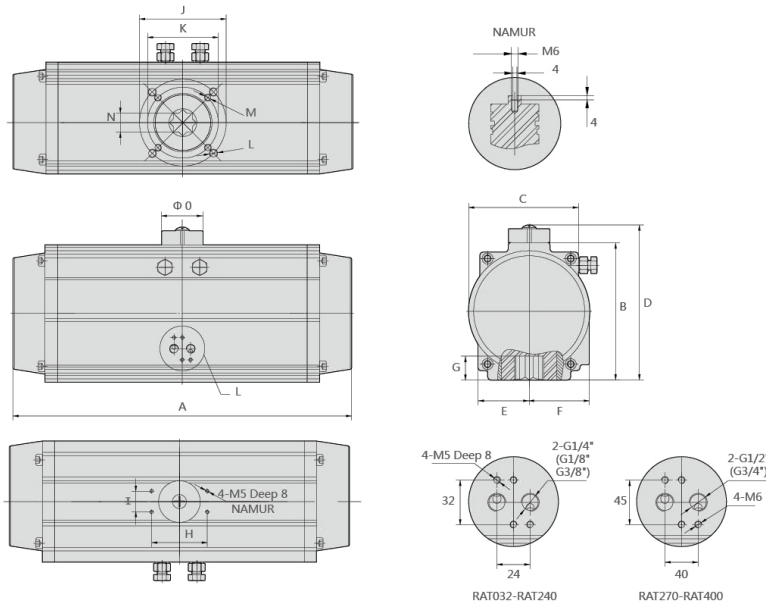
Haitima Double Acting Aluminium Pneumatic Actuator



Features

- 0-90° rotation angle to pilot ball, butterfly and plug valves
- Double acting torques from 9 to 3916 Nm at 6 bar
- Hard anodized aluminium body
- ATEX EXII2GdCT certification
- NAMUR pneumatic connection for solenoid valve installation
- Working temperature: -20°C to +90°C
- Maximum working pressure: 8 bar

Model (HTD)	Nm
032	9
040	14.1
052	25
063	43.9
075	70.5
083	89.1
092	136.4
105	203.6
125	349.8
140	526.4
160	802.2
190	1292.9
210	1776.7
240	2785
270	3916.3



Model (HTD)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Air Connection
032	112	45	51	71	22.5	28.5	12	50	25		F03/ø36		M5x8	9	ø40	1/8"
040	124	59.5	83	86	36.4	24	14	80	30	F05/ø50	F03/ø36	M6x9	M5x8	11	ø40	1/4"
052	163.5	72	65	98	26	42	14	80	30	F05/ø50	F03/ø36	M6x9	M5x8	11	ø40	1/4"
063	181	87.6	71	113	33	47	18	80	30	F07/ø70	F05/ø50	M8x10	M6x9	14	ø40	1/4"
075	207	99.4	80.2	125	38.7	52.5	20	80	30	F07/ø70	F05/ø50	M8x12	M6x9	14	ø40	1/4"
083	213	108.9	91.6	134.5	40	56.5	21	80	30	F07/ø70	F05/ø50	M8x12	M6x9	17	ø40	1/4"
092	258	117	98.3	143	44	59	21	80	30	F07/ø70	F05/ø50	M8x12	M6x10	17	ø40	1/4"
105	287	133	109.5	158.5	52	64	24.5	80	30	F10/ø102	F07/ø70	M10x15	M8x12	22	ø40	1/4"
125	342.5	154.4	127.2	180.5	59.7	74	29	80	30	F10/ø102	F07/ø70	M10x15	M8x12	22	ø50	1/4"
140	411	173.7	138	200	65	77	32	80	30	F12/ø125	F10/ø102	M12x20	M10x15	27	ø60	1/4"
160	488	198	158.3	224	73.8	86.7	34.5	80	30	F12/ø125	F10/ø102	M12x20	M10x15	27	ø60	1/4"
190	544	232.3	188.7	258	85.3	102.8	40	130	30	F14/ø140		M16x22		36	ø80	1/4"
210	580	257.6	210.5	284	96.5	113.2	41	130	30	F14/ø140		M16x24		36	ø80	1/4"
240	622	291	245	317	115	130	50	130	30	F16/ø165		M20x26		46	ø80	3/8"
270	766	330	273	356	126	147	50	130	30	F16/ø165		M20x26		46	ø80	1/2"